

CLAIMS

1. A television receiver that inputs encoded picture data that contain motion information used when the picture data were encoded, comprising:

5 decoding means for decoding the encoded picture data according to the motion information and outputting the decoded picture data;

picture process means for performing a motion adaptive picture process for the decoded picture data;

10 and

time axis compensation means for supplying motion information according to the generated decoded picture data to the picture process means in synchronization with timing of which the decoded picture data are supplied to the picture process means,

15 wherein the picture process means performs a picture process according to the motion information supplied from the time axis compensation means.

20 2. The television receiver as set forth in claim 1,

wherein the encoded picture data contain difference data against a reference picture, and

25 wherein the decoding means adds past or future picture data generated according to the motion information and the difference data to generate the decoded picture data.

3. The television receiver as set forth in claim

1,

wherein the motion information is a moving vector detected for each macro block composed of a plurality of pixels, and

5 wherein the picture process means references the moving vector for each macro block and performs the motion adaptive picture process.

4. The television receiver as set forth in claim

1,

10 wherein when the motion information supplied from the time axis compensation means exceeds a predetermined value, the picture process means performs a moving picture adaptive process for the picture data and when the supplied motion information is equal to or 15 smaller than the predetermined value, the picture process means performs a still picture adaptive process for the picture data.

5. The television receiver as set forth in claim

1,

20 wherein the picture process means is a noise reduction circuit that adds picture data of successive frames at a predetermined ratio only when the supplied motion information is equal to or smaller than the predetermined value.

25 6. The television receiver as set forth in claim 1, further comprising:

motion detection means for inputting picture

data that do not contain motion information, detecting motion information of the picture data, and supplying the detected motion information to the picture process means; and

5 selection means for supplying one of output picture data of the decoding means and picture data that do not contain the motion information to the picture process means,

10 wherein when the picture data are input to the motion detection means, the picture process means performs the motion picture adaptive process according to the motion information detected by the motion detection means.

7. The television receiver as set forth in claim
15 1,

wherein the encoded picture data are an elementary stream according to the MPEG2 system.

8. A picture processing method of inputting encoded picture data that contain motion information used when the picture data were encoded, comprising the steps of:

decoding the encoded picture data according to the motion information and outputting the decoded picture data;

25 performing a motion adaptive picture process for the decoded picture data; and

supplying motion information according to the

generated decoded picture data to the picture process step in synchronization with timing of which the decoded picture data are supplied to the picture process step,

5 wherein the picture process step performs a picture process according to the motion information supplied from the time axis compensation step.

9. The picture processing method as set forth in claim 8,

10 wherein the encoded picture data contain difference data against a reference picture, and
 wherein the decoding step adds past or future picture data generated according to the motion information and the difference data to generate the decoded picture data.

15 10. The picture processing method as set forth in claim 8,

20 wherein the motion information is a moving vector detected for each macro block composed of a plurality of pixels, and

 wherein the picture process step references the moving vector for each macro block and performs the motion adaptive picture process.

25 11. The picture processing method as set forth in claim 8,

 wherein when the motion information supplied from the time axis compensation step exceeds a

predetermined value, the picture process step performs a moving picture adaptive process for the picture data and when the supplied motion information is equal to or smaller than the predetermined value, the picture process step performs a still picture adaptive process for the picture data.

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12. The picture processing method as set forth in claim 8,

10 wherein the picture process step is a noise reduction that adds picture data of successive frames at a predetermined ratio only when the supplied motion information is equal to or smaller than the predetermined value.

15 13. The picture processing method as set forth in claim 8, further comprising the steps of:

inputting picture data that do not contain motion information, detecting motion information of the picture data, and supplying the detected motion information to the picture process step; and

20 supplying one of output picture data of the decoding step and picture data that do not contain the motion information to the picture process step,

25 wherein when the picture data are input to the motion detection step, the picture process step performs the motion picture adaptive process according to the motion information detected by the motion detection step.

14. The picture processing method as set forth in
claim 8,

wherein the encoded picture data are an
elementary stream according to the MPEG2 system.